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WHAT IS CLAIMED IS:

- A rotor for electrical equipment, said rotor having at least one pair of poles
 and comprising
- a winding encircling each of said poles; and
- at least one element fabricated of heat conductive material separate from said pole and said winding and disposed between at least one of said poles and the winding encircling this pole.
 - 2. The rotor of claim 1 wherein each element has a first surface adjacent to said winding and formed so as to be in substantial contact therewith.
 - 3. The rotor of claim 2 wherein each element has a second surface adjacent to said pole and formed to be in substantial contact therewith.
 - 4. The rotor of claim 1 wherein each element has a first surface adjacent to said pole and formed so as to be in substantial contact therewith.
 - 5. The rotor of claim 4 wherein each element has a second surface adjacent to said winding and formed so as to be in substantial contact therewith.
- 1 6. The rotor of claim 1 wherein each element includes at least one passageway for the conduction of a cooling medium therethrough.
- 7. The rotor of claim 6 wherein said rotor includes at least one manifold for receiving a cooling medium.

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- 1 8. The rotor of claim 7 further including at least one coupling member for
- transporting the cooling medium from the manifold to each passageway.
- 1 9. The rotor of claim 8 wherein said rotor includes a shaft having a cooling
- 2 medium conducting passageway therethrough.
- 1 10. The rotor of claim 1 wherein said winding is fabricated of wire having a
- 2 rectangular cross section.
- 1 11. The rotor of claim 1 wherein said element is a unitary member.
 - 12. The rotor of claim 1 wherein said element includes a pair of mating members.
 - 13. Electrical equipment comprising
 - a housing;
 - a stationary winding; and
 - a rotor, said rotor including at least one pair of poles with a winding encircling each pole; and
 - at least one element fabricated of heat conductive material separate from said pole and said winding and disposed between at least one of said poles and the winding encircling this pole.
- 1 14. The equipment of claim 13 wherein said equipment is an alternator.
- 1 15. The equipment of claim 13 wherein said equipment is a generator.
- 1 16. The equipment of claim 13 wherein said equipment is a motor.

- 1 17. A method of cooling a rotor for electrical equipment, said rotor having at
- least one pair of poles and a winding encircling each pole, said method
- 3 comprising the steps of
- 4 providing an element fabricated of heat conductive material; and
- 5 disposing said element between each rotor pole and the winding
- 6 encircling that pole.